

Gold King Mine Discharge Water Chemistry – Dissolved Metals					
	8/10/2015	8/13/2015	8/15/2015	8/17/2015	8/19/2015
Aluminum (ug/L)	35,000	36,000	34,000	33,000	32,000
Antimony (ug/L)	0.5 J	10	3.7	0.44 J	0.69 J
Arsenic (ug/L)	3.7	140	44	2.6	6.6
Barium (ug/L)	8.9	12	8.6	8.9	9.3
Beryllium (ug/L)	11	11	11	9.8	8.5 ^
Cadmium (ug/L)	65	66 B	82	80	83
Calcium (ug/L)	380,000	360,000	370,000 B	370,000 B	370,000
Chromium (ug/L)	2.7	8.6	5.5	2.5	2.5 ^
Cobalt (ug/L)	110	110	110	100	100 ^
Copper (ug/L)	6000 E	6100 E	4600 E	5800 E	5600 E
Iron (ug/L)	120,000	370,000	150,000	110,000	110,000
Lead (ug/L)	32	78	42	32	28
Magnesium (ug/L)	33,000	26,000	27,000	26,000	26,000
Manganese (ug/L)	33,000 E	34,000 E	36,000	32,000 E	32,000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	0.84 J	16	4.2	0.45 U	1.7
Nickel (ug/L)	72	69	69	62	64
Potassium (ug/L)	2700	2700	2400	2600	2600
Selenium (ug/L)	1.7 JB	4.8	4.7 B ^	12 B^	11 B^
Silver (ug/L)	0.1 U	0.33 J	0.1 J	0.1 U	0.1 U^
Sodium (ug/L)	3900	480 U	5300	5500	480 U
Thallium (ug/L)	0.32	0.35	0.29	0.27	0.29
Vanadium (ug/L)	2	87	38	1.1	2.6
Zinc (ug/L)	25,000 E	26,000 E	20,000 E	24,000 E	22,000 E

E Result Exceeded sample range

U The analyte was analyzed for but not detected

J The result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.

B Compound was found in the blank and the sample

^ Instrument related QC is outside acceptance limits.

Gold King Mine Discharge Water Chemistry – Total Metals and Miscellaneous					
	8/10/2015	8/13/2015	8/15/2015	8/17/2015	8/19/2015
Alkalinity (mg/L)	NA	5 U	5 U	5 U	5 U
Aluminum (ug/L)	38,000	36,000	33,000	33,000	33,000
Antimony (ug/L)	4.3	9.4	0.62 J	3.5	3.7
Arsenic (ug/L)	49	130 B	5.5	45	49
Barium (ug/L)	9.5	11 B	8.7	9	8.8
Beryllium (ug/L)	11	11	11	9.8	8.6 ^
Cadmium (ug/L)	67	68	85	77	79
Calcium (ug/L)	380,000	380,000	380,000 B	360,000 B	370,000
Chloride (mg/L)	NA	0.34 J	0.36 J	0.36 J	NA
Chromium (ug/L)	5.7	7 ^	3	4.2	4.6 ^
Cobalt (ug/L)	120	110	110	100	100 ^
Copper (ug/L)	6300 E	6000 E	4600 E	5800 E	5600 E
Fluoride (mg/L)	NA	11	10	11	NA
Iron (ug/L)	190,000	310,000	120,000	140,000	140,000
Lead (ug/L)	51	69	29	41	41
Magnesium (ug/L)	28,000	28,000	27,000	26,000	25,000
Manganese (ug/L)	34,000 E	35,000 E	36,000	32,000 E	32,000 E
Mercury (ug/L)	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Molybdenum (ug/L)	4.8	14	0.77 J	4.3	6
Nickel (ug/L)	74	70	72	63	63
Nitrate as N (mg/L)	NA	0.023 U	0.023 U H	0.046 UH	0.023 UH
pH	NA	3.06 HF	2.93 HF	3.03 HF	2.92 HF
Potassium (ug/L)	2900	2700	2500	2600	2600
Selenium (ug/L)	2.5 ^	4.3 B^	3.3 ^ B	15 B^	8.3 B^
Silver (ug/L)	0.15 J	0.3 J	0.1 U	0.1 U	0.16 J^
Sodium (ug/L)	4000	4800 U	5200	5300	480 U
Sulfate (mg/L)	NA	1600	1600	1600	NA
Thallium (ug/L)	0.33	0.35	0.29	0.27	0.29
Total Hardness (mg/L)	1100	1100	1100	1000	1000
Total Suspended Solids (mg/L)	66	NA	NA	NA	NA
Vanadium (ug/L)	44	71 E	2.5	32	32
Zinc (ug/L)	27,000 E	26,000	20,000 E	24,000 E	21,000 E^

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